

**A REQUIREMENT MODEL OF WEB-BASED  
e-PROCUREMENT:  
A CASE STUDY FOR UUM COLGIS**

A thesis submitted to the Graduate School in partial fulfillment of the requirements for  
the degree Master of Science (Information Technology)  
Universiti Utara Malaysia

By

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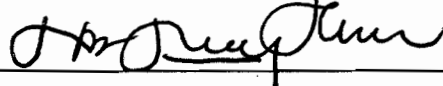
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## **ABSTRAK**

Tujuan projek ini adalah untuk membangunkan satu model keperluan bagi sistem perolehan secara elektronik (e-Perolehan), iaitu untuk menggantikan cara perolehan dan pembelian yang diamalkan di Universiti Utara Malaysia (UUM) pada masa kini. Sistem prototaip dibangunkan berasaskan kepada model yang telah dicadangkan sebelum ini. Model tersebut telah dibina dengan menggunakan Unified Modeling Language (UML). Kolej Undang-Undang, Kerajaan dan Pengajian Antarabangsa telah dipilih sebagai kajian kes untuk projek ini dan ianya bertujuan untuk mengurangkan pelbagai masalah yang sering dihadapi seperti masalah pemantauan terhadap aktiviti perolehan, masa yang diambil untuk sesuatu proses tidak konsisten dan juga masalah dari segi pengurusan staf yang bertanggungjawab terhadap proses perolehan.

## ABSTRACT

*This research proposed a requirement model for electronic Procurement (e-Procurement) in order to change the traditional way of procurement activities applied in Universiti Utara Malaysia (UUM). The system prototype has been developed based on the proposed requirement model that is designed using Unified Modeling Language (UML). For this project, UUM College of Law, Government and International Studies has been selected as a case study in order to reduce existing problems such as lack of procurement monitoring, lack of time management and human recourse factors.*

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# **CHAPTER 1**

## **INTRODUCTION**

### **1.1 Introduction**

According to Lambert et al. (1988), procurement is a full range of activities related to purchasing materials and services. The procurement activities as mentioned in this study are sourcing, ordering, commissioning, receipting and making payment.

After implementing the traditional procurement for a few decades, most of organizations today have shifted from the traditional procurement approach to a new innovative procurement approach, which is an electronic procurement. The shifting has gained popularity due to time and cost saving reputation (Ng. and Aminah, 2006).

In the late 1990s, the Malaysian government introduced eight flagship projects as part of the Multimedia Super Corridor (MSC) initiatives to spur the growth of information and communication technology in Malaysia. One of the projects is e-Government. ePerolehan or e-Procurement is one of the Malaysia's e-Government flagship applications, leaded by the Ministry of Finance (<http://www.msc.my>). e-

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